

In the claims:

1. (currently amended) Apparatus for use by a wireless device in a wireless communications environment including multiple access points and stations, wherein stations gain network access by associating with one of the access points, comprising:

logic for associating the wireless device with a current access point on a first channel;

logic for ascertaining, by the wireless device, whether the wireless device should attempt to associate with an alternative access point operating on a second channel, the ascertaining logic employing, at least in-part, indications of signal strengths of transmissions from the current and alternative access points, and technology type employed by the current and alternative access points; and

logic for requesting association with the alternative access point if it is ascertained that the wireless device should attempt to associate with said alternative access point.

2. (previously presented) The apparatus of claim 1 further comprising:

logic for automatically collecting, by the wireless device, information about access points operating on other channels.

3. (previously presented) The apparatus of claim 2 wherein the logic for ascertaining ascertains that the wireless device should attempt to associate with the alternative access point operating on said second channel if the alternative access point on said second channel is closer than the current access point.

4. (previously presented) The apparatus of claim 3 wherein the logic for ascertaining ascertains that the alternative access point on said second channel is closer than the current access point by:

calculating a first biased distance between the wireless device and the current access point based on “x” samples;

calculating a second biased distance between the wireless device and the alternative access point operating on said second channel based on “y” samples where “y” is less than “x”;  
and

ascertaining that the alternative access point operating on said second channel is closer than the current access point if the second biased distance is less than the first biased distance.

5. (currently amended) The apparatus of claim 3 wherein the logic for requesting association requests association by sending a message to the alternative access point operating on said second channel.

6. (new) The apparatus of claim 1 wherein the ascertaining logic also employs maximum potential signal strength of the alternative access points.